

## ABSTRACT OF THE DISCLOSURE

A gas scrubber comprises a gas inlet pipe that provides the scrubber with gases to be processed; means for initiating reactions of decomposition that is directed to initialize the decomposition of gases; an oxygen and natural gas inlet pipes to provide the necessary gases for combustion; a chamber of decomposition into which the gases to be processed are decomposed under thermal process carried out by combustion; and means for scrubbing byproducts produced in the chamber of decomposition. The means for initiating the reactions of decomposition is directed to initialize the decomposition of gas through producing radicals thereof. Thereby, the decomposition of gases under combustion in the chamber of decomposition can be accelerated, and less thermal energy is required from the combustion.